## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t::				(	See Instruct	ions on Reve	rse Side	)				
Open Flow			T4 D-4				A DI	No. 45					
Deliverabilty				Test Date 02/10/20		API No. 15 15-175-21627-0000				0000			
Company MERIT E		Y CC	DMPANY				Lease HARKRA	DER C			1	Weil Nu	ımber
County Location SEWARD 1980 FNL & 660 FEL			Section 21		TWP 31S		RNG (E/W) 32W			Acres /	Attributed		
Field THIRTY-ONE			Reservoir ATOKA	Reservoir ATOKA			Gas Gathering Conne ONEOK		ection				
Completion Date 06/09/2001			Plug Back 5445	Plug Back Total Depth 5445			Packer 5	et at					
Casing Size Weight 5.5 15.5			Internal Diameter 4.950		Set at 5858		Perforations 5394		To 53 <b>97</b>		-		
Tubing Size Weight 2.375 4.7				Internal Diameter 1.995		Set at <b>5404</b>		Perfo	rations	То			
Type Con			cribe)		Type Flui- WATE	d Production	1			nit or Traveling BEAM PU		/ No	
Producing Thru (Annulus / Tubing) ANNULUS			% C 0.1366	arbon Dioxid	de	% Nitrogen 4.0438%			Gas Gravity - G <sub>9</sub> 0.705				
Vertical Depth(H) 5396			Pressure Taps FLANGE			, s , ,		•	(Meter Run) (Prover) Size 3.068				
Pressure	Buildup	: Sh	ut in _02/1	0 2	20_15 at_1	0:00 AM	(AM) (PM) 1	aken_02	2/11	20	15 <sub>at</sub> 10:00	AM	(AM) (PM)
Well on L	ine:	Sta	arted	2	0 at		(AM) (PM) T	aken		20	at		(AM) (PM <del>)</del>
	_					OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24	Hours
Static / Orifice Oynamic Size Property (inches)		P	Circle one: Meter rover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	t lemperature lemperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Wallhe	Tubing ad Pressure $(P_1) \text{ or } (P_c)$ psia	Duration L (Hours)		id Produced Barrels)
Shut-In				2			28.0	psia	paig	psia	24		
Flow													
						FLOW STR	EAM ATTRIE	BUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Grav Fact F <sub>g</sub>	tor T	Tomporahura		ation ctor	Metered Flow R (McId)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravit <del>y</del> G <sub>m</sub>
					(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(0.)	2 _ 0.3	207
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =_	:	P <sub>o</sub> =	• •	-	- 14.4) +		:	(P <sub>d</sub> )	<sup>2</sup> = 0.2 <sup>2</sup> =	
(P <sub>e</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ) <sup>2</sup>	- (P <sub>w</sub> ) <sup>2</sup>	thoose formula 1 or 2 1. $P_o^2 - P_a^2$ 2. $P_o^2 + P_d^2$ ivided by: $P_c^2 - P_w$	LOG of formula 1, or 2, and divide	P.2 - P.2	Assig	= "n" -r	nxl	og _	Antilog	Del Equals	pen Flow liverability s R x Antilog (Mcfd)
							<u> </u>					<u> </u>	
Open Flow Mcfd @ 14.65 psia				.65 psia	Deliverability				Mcfd @ 14.65 psia				
									N	e above repo	rt and that he ha		
the facts s	tated the	erein,	and that sa	d report is true	e and correc		this the 300 Received ORPORATION C		uay 01	rit Energy (	Company		20 15
		<u>-</u> .	Witness (if	any)			EC 022		·		Company	_	
			For Commi	ssion			COVATION D	VIIGIUM			cked by		

I declare under penalty of perjury under the laws of the state of Kansas exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Merit Energy	gy Company							
and that the foregoing pressure information and statements contained on the	is application form are true and							
correct to the best of my knowledge and belief based upon available production	n summaries and lease records							
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the Harkrader C 1								
gas well on the grounds that said well:								
gas well off the grounds that said well.								
(Check one)								
is a coalbed methane producer								
is cycled on plunger lift due to water								
is a source of natural gas for injection into an oil reservoir undergoing ER								
is on vacuum at the present time; KCC approval Docket No.								
is not capable of producing at a daily rate in excess of 250	mcf/D							
I further agree to supply to the best of my ability any and all supporting do	ocuments deemed by Commission							
staff as necessary to corroborate this claim for exemption from testing.								
Date: November 30, 2015								
Received Signature: Katherine McClurkan	Latherine McClucker							
KANSAS COM 314	runum II Cuire							
DEC 0 2 2015 Title: Regulatory Analyst								
CONSERVATION DIVISION WICHITA, KS								

## Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.